CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel 1½ In. Current	Gravel 1½ In. One Yr. Ago	Gravel ¾ In. Current	Gravel ¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$2.00	$2.00	$2.00	$2.10	$1.25	$1.25
Denver	1.55	1.65	1.55	1.45	1.10	1.00
Chicago	2.00	1.50		1.50	1.10	1.00
Kansas City	2.50	2.15	3.00	2.60	1.00†	.60
St. Louis*	1.76	1.11	1.82	1.11	1.68	1.11
Seattle	1.25	.80	1.25	.80	1.25	1.00
Dallas	2.00	1.50	2.00	1.50	1.50	1.25
St. Paul	1.25	1.00	1.25	1.40	.60	.50
San Francisco	1.40	1.00	1.20	1.00	1.20	1.00
Boston	2.75	1.50	2.75	1.60	1.25	.90
New Orleans	2.82				1.88	1.95
Cincinnati	1.35	1.65	1.35‡	1.65	1.35‡	1.65
Los Angeles	*1.10*		*1.10*		*.70*	

*Fine white sand, Pacific and Ottawa per ton, $5. †Kaw River sand is $1.50 per yd. ‡Per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	*$1.65–1.75*	$1.55	*$1.65–1.85*	$1.75
Chicago	1.60	1.50	1.70	1.50
St. Louis	1.25	1.35	1.25	1.35
Dallas	2.25	1.39	2.25	1.46
San Francisco	1.20	1.00	1.20	1.00
Boston	1.75*	1.50	1.75*	1.60
St. Paul	1.15	1.00	1.25	1.10
Denver		1.50	1.55	1.50
Kansas City	1.70	1.60	1.80	1.70
Seattle	1.50	1.10	1.50	1.10
Cincinnati	1.50	1.75		1.75
Los Angeles	*1.20*		*1.20*	

*Per ton.

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 300-Lb. Barrel Finished	Lump per 300-Lb. Barrel Common
New York	$17.50	$14.50	$2.90	$2.65
Kansas City	22.80	20.80	2.35*	2.20
Chicago	18.00	17.50	1.80*	1.10*
St. Louis	22.00	16.00		1.75
Boston	22.20	18.20	3.65	3.35
Dallas	16.50			
San Francisco	20.00			2.40
St. Paul	25.00	19.50	1.97*	1.93*
Denver	26.20			2.50*
Cincinnati	14.20			
Seattle	30.00		2.80*	11.95‡
Los Angeles			3.00*	*2.30†*

* 200-lb. barrels. † Per 180-lb. barrel. ‡ Per ton

NOTE—Refund of 10c. per barrel.

NATURAL CEMENT — Price to dealers for 500 bbl. or over, f.o.b., including bags:

Cincinnati (Utica)	$1.80
St. Paul (Austin)	1.93
Boston (Rosendale)	1.65
Kansas City (Ft. Scott)	1.75
New Orleans	3.52

Return of from 9c. to 15c. allowed per bag.

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags, to contractors:

	Current	One Month Ago	One Year Ago
New York	*$3.45*	$4.00	$2.25
Jersey City	3.62	3.62	2.16
Boston	3.67	3.67	2.37
Chicago	3.05	3.05	2.21
Pittsburgh	3.15	3.15	2.31
Cleveland	3.32	3.32	2.44
Detroit	3.28	3.28	2.40
Indianapolis	3.22	3.22	2.38
Toledo	3.22	3.22	2.40
Milwaukee	3.16	3.16	2.33
Duluth	3.20	3.20	2.51
Peoria	3.16	3.16	2.33
Cedar Rapids	3.28	3.28	2.48
Davenport	3.24	3.24	2.40
St. Louis	3.30	3.30	2.45
San Francisco	*3.03*	3.48	2.30
New Orleans	3.77	3.77	3.00
St. Paul	3.40	3.40	2.80
Denver	3.67	3.67	3.20
Kansas City	3.30	3.30	2.44
Seattle	3.33	3.33	3.25
Dallas	2.93	2.93	2.60
Los Angeles	*3.58*	3.68	
Cincinnati	2.80	2.80	2.92

NOTE—Bag Refund is generally 25c. each; exceptions: Cincinnati, 9c.; Dallas, 10c.; San Francisco, 15c.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Ft. Width	Pittsburgh	New York	Chicago	St. Louis	Dallas	San Francisco
032	0.032	$0.96	$1.09	$1.02	$1.03	$1.13	*$21.36*
049	0.049	1.22	1.40	1.30	1.32	1.43	*1.72*
068	0.068	1.52	1.73	1.62	1.64	1.79	*2.15*
093	0.093	1.96	2.23	2.09	2.11	2.41	*2.77*
126	0.126	2.48	2.82	2.63	2.67	2.92	*3.50*
153	0.153	2.96	3.38	3.15	3.19	3.48	*4.18*
180	0.180	3.39	3.85	3.60	3.66	3.99	
245	0.245	4.48	5.10	4.75	4.83	5.27	
287	0.287	5.18	5.90	5.50	5.58	6.10	*7.31*
336	0.336	6.00	6.83	6.37	6.47	7.06	
395	0.395	6.96	7.89	7.40	7.50	8.19	

PAVING

036	0.036	$0.74	$0.84	$0.84	$0.80	$1.80
053	0.053	1.04	1.25	1.25	1.12	1.12
072	0.072	1.35	1.58	1.53	1.20	1.45
097	0.097	1.74	1.98	1.98	1.80	1.88
049	0.049	1.04	1.25	1.25	1.12	1.12
067	0.067	1.35	1.53	1.53	1.45	1.46
089	0.089	1.80	1.98	1.98	1.88	1.88

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$34.07	$31.00	$31.00	$34.00	$38.00	$33.33
26	250	35.23	32.05	32.00	35.00	40.00	34.33
25	300	36.51	33.15	33.25	.....	42.50	35.33
24	340	37.73	34.25	34.50	37.00		37.50
22	450	40.48	36.45	.....	.....	.....	.....

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING — The following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current	New York One Month Ago	Chicago	St. Louis	Dallas	San Francisco
½ and larger	$2.90	$4.12	$4.12	*$3.97*	*$4.04*	$4.90	$5.15
⅝	2.95	4.18	4.18	*4.02*	*4.09*	4.95	5.20
¾	3.00	4.23	4.23	*4.07*	*4.14*	5.00	5.25
⅞	3.15	4.38	4.38	*4.22*	*4.29*	5.15	5.40
1	3.40	4.62	4.62	*4.47*	*4.52*	6.15	5.65

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	*$3.97*	*$3.80*	$4.90	½	*$3.22*	*$3.05*	$5.15
⅝	*4.02*	*3.85*	4.95	¾	*3.47*	.....	6.15
¾	*3.07*	*2.90*	5.00				

BRICK—To contractors the price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	**$15.00**	$14.00	$10.00	No Quotations	
Chicago	**12.00**	11.00	8.00	$31.00	**$33.00**
St. Louis, selected	18.00	18.00	11.00	28.00	.....
St. Louis, salmon	12.00*	12.00	9.50	.....	.....
Denver	12.00†	12.00	8.50	.....	.....
Dallas	16.07	16.07	10.50	26.50	.....
San Francisco	12.00	12.00	10.00	.....	.....
Boston (on job)	**18.00**	16.75	13.25	**30.00‡**	.....
New Orleans	15.98	15.98	11.00	.....	.....
St. Paul	10.25	10.25	8.35	30.00	37.50
Kansas City	**14.00**	13.00	11.00	**35.00**	.....
Seattle	15.00	15.00	10.00	40.00	.....
Cincinnati	16.75	16.75	13.50	.....	.....
Los Angeles	*12.00*	14.00	.....	.....	.....

* Hard brick, $16. † Salmon is $10. ‡ Water-struck; sand-struck is $21.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas	Factory Perth Amboy, N. J.
4x12x12	$0.11925	.....	$0.07	$0.08	$0.1125	$0.1005	.....
6x12x12	.159	.....	.095	.105	.15	.106	$0.1512
8x12x12	.....	.....	.12	.15	.....	.201	.1944
10x12x12	.....	.....	.14	.173	.....	.300	.2263
12x12x12	.....	.....	.195	.208	.....	.325	.2916
			4x12x12		8x12x12		12x12x12
Boston			$0.10½		$0.20		$0.29
St. Paul			.056		.11		.162
Cincinnati			.086		.165		.218
Kansas City			.0786		.15		.205
Seattle			.09		.17½		.30
Los Angeles*			.07¼		*.139*		.345
New Orleans			.16		.22		.32

* F.o.b. factory, 4, 8 and 10 inch.

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco	Dallas
Beams, 3 to 15 in	*$2.80*	$4.07	$4.19½	$4.14	$4.07	$5.25	$7.00
Channels, 3 to 15 in	*2.80*	4.07	4.19½	4.14	4.07	5.25	7.00
Angles, 3 to 6 in., ¼ in. thick	*2.80*	4.07	4.19½	4.14	4.07	5.25	7.00
Tees, 3 in. and larger	*2.80*	4.12	4.19½	4.14	4.07	5.25	7.00
Plates	*3.00*	4.27	4.44½	4.14	4.27	5.50	7.10

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Chicago	St. Louis	San Francisco	Dallas
½ in. and larger	$4.40	$6.50	$7.00	$5.57	$4.74	$6.70	$7.00

CONE HEAD BOILER

½ in. and larger	*4.50*	6.60	7.10	5.67	*4.84*	8.80	7.10
⅝ and ¾	*4.65*	6.75	7.25	5.82	*4.99*	6.95	7.25
⅞ and 1	*5.00*	7.10	7.60	6.17	*5.24*	7.30	7.60

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.35	$1.60	$1.70	$1.95	$2.05	$2.30
No. 2 grade	1.20	1.45	1.50	1.75	1.80	2.05

Asbestos asphalt-saturated felt (14 lb. per square) costs $5.00 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $2.10 per roll in carload lots and $2.35 for smaller quantities.

Shingles, red and green slate finish, cost $3.50 per square in carloads, $5.75 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

	Carload Lots N. Y.	Carload Lots Chicago	Less Than Carload Lots N. Y.	Less Than Carload Lots Chicago
Tar felt (14 lb. per square of 100 sq. ft.)	$64.00	$57.00	$65.00	$58.00
Tar pitch (in 400-lb. bbl.)	21.00	18.00	22.00	19.00
Asphalt pitch (in barrels)	36.00	36.00	41.50	41.50
Asphalt felt	67.50	67.50	72.00	72.00

SHEETS—Quotations are in cents per pound in various cities from warehouse, also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	—New York— Current	One Yr. Ago
No. 10	3.90	5.04	5.17	6.55	5.17	5.44¼
No. 12	3.95	5.09	5.22	6.60	5.22	5.49¼
No. 14	4.00	5.14	5.27	6.70	5.27	5.54¼
Black						
Nos. 18 and 20	4.50	5.84¼	6.02	7.30	6.02	6.24¼
Nos. 22 and 24	4.55	5.89	6.07	7.35	6.07	6.29¼
No. 26	4.60	5.94¼	6.12	7.40	6.12	6.43¼
No. 28	4.70	6.04	6.22	7.50	6.27	6.53¼
Galvanized						
No. 10	5.05	6.39	6.57	....	6.57	6.69¼
No. 12	5.15	6.39	6.67	7.85	6.62	6.79¼
No. 14	5.15	6.39	6.67	8.00	6.67	6.79¼
Nos. 18 and 20	5.45	6.59	6.97	8.15	6.97	7.09¼
Nos. 22 and 24	5.60	6.44	7.12	8.30	7.12	7.24¼
No. 26	5.75	6.74	7.27	8.45	7.27	7.39¼
No. 28	6.05	7.19	7.57	8.75	7.57	7.69¼

LINSEED OIL—These prices are per gallon:

	—New York— Current	One Year Ago	—Cleveland— Current	One Year Ago	—Chicago— Current	One Year Ago
Raw in barrel	$1.49	$1.31	$1.65	$1.35	$1.66	$1.32
5-gal. cans	1.74	1.41	1.80	1.50	1.86	1.45

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	—Red— Current Dry	Current In Oil	1 Year Ago Dry	1 Year Ago In Oil	—White— Current Dry and In Oil	1 Yr. Ago Dry and In Oil
100-lb. keg	13.00	14.50	12.25	12.50	13.00	12.50
25 and 50-lb. kegs	13.25	14.75	12.50	12.75	13.25	12.25
12½-lb. keg	13.50	15.00	12.75	13.00	13.50	12.50
5-lb. cans	.....	.....	14.25	14.00	15.00	14.50
1-lb. cans	.....	.....	14.25	14.50	16.00	14.50

LUMBER

San Francisco—Prices of rough Douglas fir, No. 1 common, in more than carload lots:

Lumber Prices in Yards at San Francisco

	6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$26.00	$26.50	$27.50	$29.50
3x6 and 8	27.00	27.50	28.50	30.50
4x4-6 and 8	28.50	29.50	30.50	32.50
3x10 and 12	27.50	28.50	29.50	31.50
3x14	28.00	29.00	30.00	32.00
4x10 and 12	28.50	29.50	30.50	32.50
4x14	29.50	30.50	31.50	33.50

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$28.50	$30.50	$31.50
6x14	30.00	32.00	33.00
8x10	31.50	33.50	34.50
8x14	33.00	35.00	36.00

Chicago and St. Louis—Yellow Pine:

	—Chicago— 20 Ft. and Under	22-24 Ft.	—St. Louis— 20 Ft. and Under	22-24 Ft.
3x 4 to 8x 8	$39.00	$41.00	$35.00	$37.00
3x10 to 10x10	42.00	43.50	38.50	40.00
3x12 to 12x12	44.00	45.50	40.00	41.50
3x14 to 14x14	48.50	50.00	45.00	47.00
3x16 to 16x16	52.00	53.50	48.00	50.00
3x18 to 18x18	56.00	57.00	52.00	53.50
4x20 to 20x20	62.00	63.00	.....	.....

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under Y.P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under Y.P.	Fir
Boston	$45.00	$45.00	$45.00	$42.00	$46.00	$46.00
Cincinnati	37.00	.....	36.00	.....	41.00	40.00
Kansas City	39.00	40.50	40.50	38.50	45.60	42.50
Seattle	17.50	17.50	17.50	17.50	17.50	17.50
New Orleans	48.00	.....	.....	.....	50.00	.....
St. Paul	.....	52.00	48.00	48.00	.....	48.50
Denver	43.00	33.50	.....	.....	48.00	39.00
Los Angeles	Base price Douglas fir is $29					

	1-In. Rough, 10 In. x 16 Ft. and Under Y.P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. Y.P.	Fir
Boston	$50.00	.....	$45.00	$10.00	$45.00
Cincinnati	43.00	.....	39.00	42.00	38.00
Kansas City	46.00	$54.75	54.75	53.50	60.00
Seattle	17.50	17.50	17.50	17.50	17.50
New Orleans	54.00	.....	.....	60.00	.....
St. Paul	62.50	48.00	43.00	.....	48.50
Denver	43.25	32.50	32.50	35.00	31.00
Los Angeles	Base price hemlock is $28				

Dallas—Yellow Pine:

2x4 to 2x12—12, 14 and 16	$38.40
2x4 to 2x12—10, 18 and 20	41.00
2x4 to 2x12—22 and 24	43.00
4x4, 4x6, 6x6, 8x8 and 3x8	44.25
1x10, 10x10 and 3x10	54.00
12x12 and 3x12	56.00

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$3.50	$4.37	$4.37	$5.40	$4.75
Cut	5.00	6.50	6.50	6.75	

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	$0.30	New Orleans	$0.38½
Buffalo	.17	New York	.27
Chicago	.27	Pacific Coast (all rail)	1.25*
Cincinnati	.23	Philadelphia	.24½
Cleveland	.17	St. Louis	.24
Denver	.99	St. Paul	.49½
Kansas City	.59		

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. bbl.	$0.03½	None
Hypochlorite of lime (bleaching powder), in 700-lb. drums.	.03	0.05½
Soda ash, in 400-lb. bbl.	.03	0.1
Liquid chlorine in 100-lb. cylinders Lime is quoted separately	.12	.12

Contractors' Miscellaneous Supplies

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$4 to $5	$4 to $5	$4 to $5

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York and St. Louis
Galvanized iron rigging	+17½%
Galvanized cast steel rigging	2½%
Bright plow steel	30%
Bright cast steel	17½%
Bright iron and iron tiller	List

San Francisco: Galvanized, +5%; bright, 12½% off.
Chicago: Galv., +20%; bright, 20% off.

MANILA ROPE—For rope smaller than ¼-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ⅛-in., 8 ft., ¼-in., 6; ⅜-in., 4½; ½-in., 3½; ⅝-in., 2 ft. 10 in.; ¾-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

Boston	$0.24	Denver	$0.22
New York	.23	Kansas City	.23½
Cincinnati	.24	New Orleans	.22½
Chicago	.21½	Los Angeles	.25
St. Paul	.23	Seattle	.24
San Francisco	.22	St. Louis	.21½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	—Gelatin— 40%	60%	80%	Black Powder
New York	.....	$0.29½	$0.34½	.....	$2.40
Boston	$0.23½	.26½	.31½	.35½	2.65
Cincinnati	.18½	.22½	.26½	.....	2.35
Kansas City	.20½	.25½	.30½	.38½	2.45
New Orleans	.20½	.26½	.31½	.37½	2.60
Seattle	.....	.25½	.32½	.....	.....
Chicago	.18½	.22½	.30	.36	2.35
St. Paul	.19	.25½	.30½	.....	2.45
St. Louis	.19	.25½	.30½	.36½	.....
Denver	.17½	.24	.29	.35	2.45
Dallas	.21	.25	.29	.39	.....
Los Angeles	.21	.28	.34	....	2.95

POLES—Price of Western red cedar poles is as follows:

	—New York— Current	One Year Ago	Chicago	St. Louis	Denver
6-in. x 30-ft.	$5.82	$5.66	$5.17	$4.55	$5.17
7-in. x 30-ft.	7.65	7.45	6.85	6.10	6.85
7-in. x 35-ft.	11.10	10.80	10.00	8.95	10.00
8-in. x 30-ft.	12.65	12.30	11.35	10.10	11.35
7-in. x 40-ft.	12.85	12.50	11.50	10.20	11.50
8-in. x 45-ft.	18.90	18.40	16.90	15.00	16.90
8-in. x 50-ft.	22.65	22.05	20.30	18.00	20.30

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

10-in. butts, 5-in. tops, length 20-30 ft.	$9.00
12-in. butts, 6-in. tops, length 30-40 ft.	11.50
12-in. butts, 6-in. tops, length 41-50 ft.	12.50
14-in. butts, 6-in. tops, length 51-60 ft.	21.00
14-in. butts, 6-in. tops, length 61-71 ft.	23.50

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	Chicago	St. Louis
No. 1 railroad wrought	$18.50	$17.00	$17.00
Stove plate	14.50	17.50	18.00
No. 1 machinery cast	17.00	22.00	20.00
Machine shop turnings	10.00	8.50	7.50
Cast borings	10.50	11.50	10.50
Railroad malleable cast	14.50	16.50	17.00

SHIP SPIKES—Current prices per 100 lb.

In.	San Francisco Galv.	San Francisco Black	Seattle Black
½	$10.50	$8.50	$8.55
⅝	9.85	7.85	8.25
¾	9.70	7.70	8.30

Pittsburgh base, $5.05 per 100 lb.

PROPOSALS

For Proposals Advertised See Pages 80-83 inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Feb. 11	Poughkeepsie, N. Y. Adv. Feb. 6.	Jan. 30
Feb. 12	Baltimore, Md.	Feb. 6
Feb. 13	Delevan, Wis.	Feb. 6
Feb. 18	Jersey City, N. J. Adv. Jan. 30 and Feb. 6	Jan. 30
Feb. 21	Akron, O. Adv. Feb. 6.	Feb. 6
Feb. 25	East Chicago, Ind. Adv. Jan. 30.	Jan. 30
Feb. 28	Clarksburg, W. Va. Adv. Jan. 30.	Jan. 30
Mar. 7	Pembroke, Ont.	Feb. 6

SEWERS

Feb. 7	Bayonne, N. J.	Feb. 6
Feb. 18	Wyandotte, Mich.	Feb. 6
Feb. 19	Creedmore, N. Y.	Feb. 6
Feb. 25	St. Louis, Mo.	Jan. 30

BRIDGES

Feb. 11	Oglethorpe, Ga.	Jan. 30
Feb. 17	Los Angeles, Cal.	Feb. 6
Mar. 3	Bisbee, Ariz.	Feb. 6

STREETS AND ROADS

Feb. 10	Fayetteville, W. Va. Adv. Jan. 23, 30 and Feb. 6.	Jan. 16
Feb. 10	Idaho	Jan. 30
Feb. 11	Indiana	Jan. 23
Feb. 11	Moulton, Ala.	Jan. 16
Feb. 11	Jasper, Tex.	Feb. 6
Feb. 12	Ft. Meyers, Fla.	Feb. 6
Feb. 14	Oswego, Kan.	Jan. 30
Feb. 14	Oswego, Kan.	Feb. 6
Feb. 17	Philippi, W. Va. Adv. Jan. 30 and Feb. 6	Jan. 23
Feb. 17	California	Jan. 30
Feb. 17	Tulsa, Okla. Adv. Jan. 23, 30 and Feb. 6.	Jan. 30
Feb. 17	St. Paul, Minn.	Feb. 6
Feb. 17	San Diego, Cal.	Feb. 6
Feb. 18	Indiana	Jan. 23
Feb. 18	Albany, N. Y. Adv. Jan. 23.	Jan. 23
Feb. 18	Clifton, Ariz.	Feb. 6
Feb. 18	Santa Ana, Cal.	Feb. 6
Feb. 20	Hamlin, W. Va.	Jan. 23
Feb. 20	Rumson, N. J. Adv. Jan. 23.	Jan. 23
Feb. 24	Middlebourne, W. Va. Adv. Jan. 23, 30 and Feb. 6.	Jan. 30
Mar. 3	Indianapolis, Ind.	Feb. 6
Mar. 4	Ripley, W. Va.	Jan. 23
Mar. 4	Indianapolis, Ind.	Feb. 6
Mar. 5	Alexandria, Minn.	Feb. 6
Mar. 6	Fairmont, W. Va.	Feb. 6
Mar. 31	Lockport, N. Y.	Feb. 6

EXCAVATION AND DREDGING

Feb. 10	St. James, Minn.	Jan. 30
Feb. 15	SouthBend, Ind. Adv. Jan. 30 and Feb. 6	Jan. 30
Feb. 17	Tunica, Miss.	Feb. 6
Feb. 18	Jonesboro, Ark.	Feb. 6
Feb. 18	Albany, N. Y. Adv. Jan. 23, 30 and Feb. 6.	Jan. 23
Feb. 19	Albany, N. Y. Adv. Jan. 23, 30 and Feb. 6.	Jan. 23
Mar. 13	Tyler, Minn.	Feb. 6

INDUSTRIAL WORKS

Feb. 18	Albany, N. Y. Adv. Jan. 23.	Jan. 23
Feb. 21	Brooklyn, N. Y.	Feb. 6
Feb. 25	New York, N. Y.	Jan. 30
Mar. 4	Thiells, N. Y.	Jan. 16
Apr. 1	Sioux City, Ia.	Jan. 16

BUILDINGS

Feb. 10	New York, N. Y.	Jan. 30
Feb. 11	Lusk, Wyo.	Jan. 23
Feb. 13	Detroit, Mich.	Feb. 6
Feb. 14	Brooklyn, N. Y.	Jan. 23
Feb. 14	Malone, N. Y.	Feb. 6
Feb. 17	New York, N. Y. Adv. Feb. 6.	Feb. 6
Feb. 19	Brooklyn, N. Y.	Jan. 30
Feb. 19	Waterloo, Ia.	Feb. 6
Feb. 21	Phillipsburg, O.	Jan. 30
Feb. 24	Norwood, O.	Jan. 23
Feb. 24	Cincinnati, O.	Jan. 30
Mar. 1	Cloquet, Minn.	Jan. 30
Mar. 1	Mountain Iron, Minn.	Jan. 30
Mar. 1	Duluth, Minn.	Jan. 23
Mar. 1	Duluth, Minn.	Feb. 6
Mar. 3	Rockport, Ill.	Jan. 23
Mar. 15	Culver, Ind.	Dec. 26
Apr. 2	New York, N. Y.	Jan. 23
Apr. 10	Newaygo, Mich.	Feb. 6
Apr. 15	Newark, N. J.	Feb. 6

FEDERAL GOVERNMENT WORK

Feb. 10	Metal and Glass—Baltimore, Md. — Adv. Jan. 16.	Jan. 16
Feb. 10	Portland Cement — Denver, Colo.	Jan. 23
Feb. 10	Refrigerating Plant Equipment—Spec. 3749—Ward's Island, N. Y.	Jan. 30
Feb. 10	Steel Stock and Storage Shed—Spec. 3736—Boston, Mass.	Jan. 30
Feb. 10	Laundry Equipment—Spec. 3665—Ward's Island, N. Y.	Jan. 30
Feb. 10	Chimney for Boiler Plant—Spec. 3606 — New York, N. Y.	Jan. 30
Feb. 10	Coal and Ash Handling Equipment — Spec. 3300—Hampton Roads, Va.	Jan. 30
Feb. 10	Tanks—Spec. 3628—Quantico, Va.	Jan. 30
Feb. 10	Coal and Ash Handling Equipment — Spec. 3607 — New York, N. Y.	Jan. 30
Feb. 10	Fence—Spec. 3789—Charleston, W. Va.	Feb. 6
Feb. 11	Bridge—Washington, D. C. Adv. Jan. 16.	Jan. 16
Feb. 12	Elevator, etc. — Ft. Worth, Tex. Adv. Jan. 23.	Jan. 23
Feb. 15	Laboratory — Washington, D. C. Adv. Jan. 23.	Jan. 23
Feb. 15	Roads—Great Falls, Mont.	Feb. 6
Feb. 15	Roads — White Sulphur Springs, Mont.	Feb. 6
Feb. 15	Laboratory — Washington, D. C.	Feb. 6
Feb. 17	Piping and Circulating System — Spec. 3416 — Portsmouth, N. H.	Jan. 30
Feb. 17	Crane Runway—Spec. 3769 —Philadelphia, Pa.	Feb. 6
Feb. 17	Electric Elevator—Spec. 3731 —New York, N. Y.	Feb. 6
Feb. 17	Railroad Extension—Spec. 3727—Ft. Mifflin, Pa.	Jan. 30
Feb. 17	Equipment, etc.—Spec. 3328 Hampton Roads, Va.	Jan. 30
Feb. 20	Surgical Dressing Room—St. Louis, Mo.	Jan. 30
Feb. 21	Dredging, etc. — Norfolk, Va. Adv. Jan. 23.	Jan. 23
Feb. 21	Dredging—Norfolk, Va. Adv. Feb. 6.	Feb. 6
Feb. 24	Addition to Dispensary—Spec. 3780—Rockaway, N. Y.	Feb. 6
Feb. 24	Piping and Equipment—Spec. 3759—New York, N. Y.	Feb. 6
Feb. 24	Dredging—Spec. 3774—Chatham, Mass.	Feb. 6
Feb. 24	Wells and Pumps—Spec. 3577 —North Ft. Worth, Tex.	Feb. 6
Feb. 24	Fuel Oil Storage Plant—Spec. 3631—Mare Island (Vallejo P. O.) Cal.	Jan. 30
Feb. 25	Jetty Work—Sabine Pass, Tex. Adv. Jan. 23.	Jan. 23
Mar. 1	Foundation and Rip Rap—Baltimore, Md. Adv. Jan. 16.	Jan. 16
Mar. 1	Dredging—Superior, Wis.	Jan. 16
Mar. 3	Barracks — Spec. 3728 — Fire Island, N. Y.	Jan. 30
Mar. 3	Post Office—Walden, N. Y.	Feb. 6

MISCELLANEOUS

Feb. 11	Boilers and Piping, etc. — Utica, N. Y.	Jan. 23
Feb. 11	Asphalt, etc.	Brooklyn, N. Y. Feb. 6
Feb. 12	Road Machinery — Alma, Wis.	Feb. 6
Feb. 13	Refrigeration Equipment—Iroquis, N. Y. Adv. Jan. 30 and Feb. 6	Jan. 30
Feb. 13	Road Oil, Asphalt, etc., Montclair, N. J.	Jan. 30
Feb. 14	Additional Window Guards —Bedford Hills, N. Y. Adv. Jan. 23.	Jan. 23
Feb. 14	Pier—Philadelphia, Pa. Adv. Jan 23.	Jan. 23
Feb. 19	Gantry Crane — Seattle, Wash. Adv. Jan. 2 and 9.	Jan. 2
Feb. 19	Dam—Los Angeles, Cal.	Feb. 6
Feb. 21	Crushed Rock—Visalia, Cal.	Feb. 6

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Fla, Pensacola—Council sold $10,000 bonds to extend and improve waterworks system. J. O. Walker, city clk.

Mich., Highland Park (Detroit P. O.)—City receives bids about Mar. 1, furnishing miscellaneous hydraulic valves to be installed in connection with filtration plant. About $8,000. L. C. Whitsit, city engr.

Ill., Rockford—City plans to expend $60,000 to build waterwork system. S. B. Hand, city engr.

Wis., Wausau—City Water Comn. having plans prepared by W. G. Kirchhoffer, engr., 31 Vroman Blk., Madison, building filtration plant, air lift system and two 250,000 gal. reservoirs.

Ia., Cedar Rapids—City having plans prepared building 6 in. c. i. water mains and 6-8 in. sanitary sewers. About $25,000. T. F. McCauley, city engr.

Kan., Baxter Springs—City plans to improve waterwork system to include well, reservoir and tower tank.

Kan., Osawatomie—State plans to repair and build concrete, brick and steel watermains and sewers at state hospital here. About $127,000. R. L. Gamble, Topeka, state archt.

Wyo., Rawlins—Committees representing Rawlins Bd. Trade, Union Pacific Ry. and Rawlins Townsite Co., considering bond issue for construction of water system for city. An offer has been made by Bosworth, Chanute & Co., Denver, to construct plant and take bonds in payment. Address J. C. Gallips, 1707 California St., Denver.

Mont., Ft. Benton—City defeated $35,000 bonds to improve water-works. M. L. Morris, Great Falls, engr. Noted Jan. 9.

Tex., Cisco—City plans to improve water-works system. About $50,000.

Tex., De Lion—City retained H. E. Elrod Co., engrs., Interurban Bldg., Dallas, to prepare plans for extension to water-works.

Tex., Hillsboro—City plans to bore artesian well. About $18,150. F. C. Metzger, city engr.

Tex., San Angelo—City plans to install modern filtration plant. About $30,000.

Okla., Marietta—City plans election soon to vote on bonds to improve water-works and light plant.

Okla., Pawhuska—City plans election to vote on $200,000 to $300,000 bonds to install water supply system.

Okla., Woodward—City election Feb. 14, to vote on $30,000 bonds to equip water and light plant.

Sask., Saskatoon—City plans to build intake well. About $36,000. A. Leslie clk.

Waterworks (Continued)

BIDS DESIRED

Md., Baltimore—Until Feb. 12, by Bd. Awards, furnishing and delivering valves to Water Dept. W. E. Lee, water engr.

O., Akron—Until Feb. 21, by H. S. Morse, dir. pub. serv., Delaware Bldg., furnishing 400 ton 6-16 in. Class "C" pipe, 170 tons 6-12 in. Class "B" pipe and 15 tons special castings; advertised in this issue.

Wis., Delavan—Until Feb. 13, by Water Comn. removing present watertank on 70 ft. brick tower and building steel support and wooden tank. W. H. Horton, pres.

Neb., Bayard—Until Feb. 18, by city, building extension to waterworks. Work involves 7540 lin. ft. 4 in., 155 lin.ft. 8 in. and 2800 lin.ft. 6 in. class "B" c.i. water mains; 2810 lb. c.i. specials, 11 fire hydrants, thirteen 4 in., seven 6 in. and one 8 in. double gate valves and boxes, one 14 in. well and 1 centrifugal pump. Selzer & Finley, Scottsbluff, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Md., Baltimore**—Bd. Awards let contract building 32 rein.-con. and terra cotta filter operating tables for Lake Montebello filters, Contr. 46, to Amer. Water Softener Co., 1011 Chester St., Phila., $23,500. Noted Jan. 16.

★**Minn., Bemidji**—City let contract installing pumping system and building two 200,000 gal. reservoirs, to Layne & Bowler, Chelsea Ave., Memphis, Tenn. About $35,000.

Sewers

PROPOSED WORK

Pa., Hazleton—City plans to build sanitary and storm sewers in various streets during year. About $10,000. J. Rough, city engr.

Pa., Scranton—City plans to build sewers in 15th and 22nd wards, about $41,847; work involves 2990 lin.ft. 8-10 and 15 in. pipe. W. M. Schunk, city engr.

Fla., Pensacola—Council sold $20,000 bonds to extend and improve sewerage and drainage system. J. O. Walker, city clk. Noted Oct. 24.

O., Cleveland—City soon lets contract building sewers in Bessemer, Chapelside, Continental, Greenwich, Griffing, and Meech Aves., East 97th, 129th, 135th and 140th Sts.,involving 1200 ft., 24 in. rein.-con., 1300 ft., 13 in. vitr., 1500 ft., 15 in. segmental block and 3400 ft., 12 in. tile sewer pipe, 30 manholes and 25 catch basins. R. Hoffman, city engr.

O., Cleveland—City soon lets contract building sewers in Dove, Dunlap, Elliot, and Lorenzo Aves., East 105th, 106th, 108th, 132nd, 135th and 139th Sts., involving 1000 ft., 24 in. rein.-con., 2500 ft. 20 in. vitr., 1500 ft. 15 in. segmental block and 2000 ft. 12 in. tile sewer pipe, 25 manholes and 26 catch basins. R. Hoffman, city engr.

O., Cleveland—Bd. Pub. Serv. receives bids about Mar. 1 building sewage disposal plant in West 58th St., (westerly site), comprising coarse bar screens, grit chambers, 2 story tanks, disinfection equipment and sludge disposal facilities for barging sludge to Government dumping grounds in lake; cost $600,000. Bd. also plans to build plant in Warner Rd., (southerly site) involving completion of intercepting sewer, cost $750,000; one in East 140th St., (easterly site), partial plant to comprise coarse bar screens, grit chambers, disinfection equipment and pumping machinery for lifting portion of sewage discharged at this site, cost $1,250,000. F. H. Betz, City Hall, archt.

O., Lakewood—City having plans prepared building concrete sewer in Olive St. from Hilliard to Margaret Sts. About $17,300. E. A. Fisher, city engr.

O., Lakewood—City receives bids in spring building intercepting sewer in Webb Rd. to Rocky River. About $154,000. E. A. Fisher, city engr.

O., Lancaster—City receives bids in March building 45 and 54 in. segmental block or concrete sewer, in Storm Water Sewer Dist. No. 15. About $23,989. W. W. Graf, city engr.

Ill., Madison—City plans to build East End sewerage system. About $39,000. Sheppard & Morgan, Edwardsville, engr.

Ill., Rockford—City plans to expend $27,290 to build sewers in various streets. S. B. Hand, city engr.

Ia., Cedar Rapids—See "Water-Works."

Minn., Minneapolis—State Legislature authorized $300,000 bonds to build trunk sewers. W. F. Cappelin, city engr.

Kan., Osawatomie—See "Water Works."

Wyo., Cheyenne—E. W. Glafcke, city engr., submitted report to City Council recommending that 24 or 36 in. sanitary sewer be installed to relieve strain on present system, cost between $8000 and $12,000, or construct 5 ft. sewer under Union Pacific Ry. shops to creek for both sanitary and storm sewerage purposes, cost between $110,000 and $175,000.

Mont., Great Falls—City having plans prepared by M. L. Morris, engr., Great Falls, building South Side trunk storm sewer. About $235,000. Noted Apr. 18.

Mont., Havre—City plans to build sewage disposal plant. C. W. Swearingen, city engr.

Tex., De Lion—City retained H. E. Elrod Co., engrs., Interurban Bldg., Dallas, to prepare plans for sewerage system.

Tex., Laredo—City plans to build 9000 ft. 18 in. sewer and 40,000 ft. 8 in. laterals. About $100,000. F. A. Jones, Interurban Bldg., Dallas, engr.

Tex., Ranger—City plans to build sewerage system and sewage disposal plant.

Okla., Idabel—City having preliminary plans prepared by Benham Eng. Co., engrs., 1300 Colcord Bldg., Oklahoma, building sewerage system and disposal plant. Bonds sold for project.

Idaho, Nampa—City plans to build sewerage system in southern section of city. About $50,000.

Ore., Portland—City plans to build sewers in East 82nd St. from north line of East Stark St. to Burnside St., East Ash and East Ankeny Sts. to East 82nd St., $4114; Henry Ave. to sewer in Milwaukee St., $2037; Glenn Ave. to East Lincoln St., $3995; Front St. to Couchs addition, $3870; Ellis Ave. to Milwaukee St., $626. Total cost, $10,645. O. E. Aurgaard, city engr.

Cal., Manteca—City receives bids about Feb. 10, building lateral sewerage system, involving 19,247 ft. 6-8 in. vitr. sewer pipe, 48 manholes etc. About $22,000. E. H. Jeffries, city engr.

Cal., San Luis Obispo—City receives bids in March building storm drain and paving Marsh St., with concrete. Former to cost $12,000. W. B. Burch, city engr.

Ont., Strathroy—City plans to build sewers and pave various streets. About $35,000.

Sask., Saskatoon—City plans to build sewers in various streets. About $34,950. A. Leslie, clk.

BIDS DESIRED

N. Y., Creedmore—Until Feb. 19, by State Hospital Comn., Capitol, Albany, building sewage disposal plant at Brooklyn State Hospital here. Plans include installation of Imhoff tanks, six 10 in. syphons, dosing chambers, 6 beds, diverting manhole, 1000 ft. 12 in. vitr. pipe, etc. About $30,000.

N. J., Bayonne—Until Feb. 7, by City Comrs., building sewer in Oak St., from point east of Ingham to Hobart Aves. Work involves, 676 lin.ft. 12-in. vitr. pipe sewer, 50 cu.yd. excav., etc. About $10,000. W. H. Clarkson, city engr. Noted Oct. 31.

Mich., Wyandotte—Until Feb. 18, by E. C. Bryan, city clk., trenching, backfilling and laying sewer pipes in western section of city. About $155,000. M. L. Brown & Co., 820 Chamber of Commerce, Detroit, engrs.

Neb., Bayard—Until Feb. 18, by city, building main sewer involving 2798 lin.ft. 15 in. pipe twenty 6 in. Y's, 10 manholes and 6.73 cu.yd. concrete; lateral sewer involving 4418 lin.ft. 10 in. and 15,935 lin..ft. 8 in. pipe, 167 ft. 6 in. Y's on 10 in. sewer, 468 lin.ft. 6 in. Y's on 8 in. sewer, 51 manholes, 6 flush tanks and 388 lin.ft. 1 in. water pipe for flush tank connections. Selzer & Finley, Scottsbluff, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contract building sewers in Hobson Ave. from Newtown Creek to Halle Ave., Hobson Ave. from Hall to Jones Aves., Jones Ave. from Clinton Ave. to Laurel Hill Blvd., Laurel Hill Blvd. from Jones to Borden Aves., Montgomery Ave. from Columbine to Jones Ave., Congress Ave. from Laurel Hill Blvd. to Montgomery Ave., Townsend Ave. from Laurel Hill Blvd. to Hobson Ave., Waters Ave. from Hobson to Clifton Aves., Joy Ave. from Montgomery to Clifton Aves., Columbine Ave. from Hobson to Clifton Ave., Clifton Ave. from Water to Columbine Aves., with temporary connection to sewer in Columbine Ave., to Green Contg. Co., 734 Verona Ave., Flushing, $181,896. Noted Jan. 23.

★**Cal., Manteca**—City let contract building trunk line sewerage system, involving 15,700 ft. 10-14 in. sewer pipe, to F. Montague. About $21,406. Noted Oct. 31.

★**Cal., Sanger**—City let contract extending sewerage system and building cottage at sewer farm, to Frederickson & Shannon, Cory Bldg., Fresno. About $11,000. Noted Dec. 26.

Bridges

PROPOSED WORK

Mass., Freetown (Assonet P. O.)—State Legislature, Boston, petitioned to improve and rebuild approaches over Fall River bridge here. Cost to exceed $10,000.

R. I., Narragansett—I. W. Patterson, ch. engr., State Bd. Pub. Rds., 12 State House, Providence, receives bids in spring building rein.-con. single span, 100 ft. flat arch bridge over Pettaquamscott River here to replace present wooden bridge. About $60,000. Noted Mar. 28.

Conn., New Haven—City plans to build 200 ft. concrete and steel bridge over West River on Washington Ave., 25 ft. wide. About $300,000; two-thirds of cost to be borne by city and one-third by Orange Twp. F. L. Ford, city engr.

N. Y., Albany—State Legislature petitioned to appropriate $23,000 to build Hall Farm bridge, $21,000 for Baker bridge, $23,000 for Diefendorf or Tharatt bridge, and $25,000 to build Hillside Change bridge; all to span Black River canal.

N. Y., Rome—State Legislature, Albany, petitioned to appropriate $18,000 to build steel bridge over black River canal, on Stanwix St., here.

N. J., Paterson—Passaic Co. having plans prepared by G. Ferguson, co. engr., for concrete bridge over Passaic River at Pennington Park. About $125,000.

Ga., Dublin—Comrs. Laurens Co. plan to build concrete bridge across Oconee River. About $150,000. Federal Government will appropriate $75,000 toward cost.

Ga., Quitman—Comrs. Brooks Co. soon let contract building bridge and roadway. About $50,000. Garrett & Slack, Montgomery, Ala., engrs.

Ill., Rockford—City plans to expend $15,700 to build bridges. S. B. Hand, city engr.

Ill., Rockford—City plans to build memorial bridge over Rock River. About $200,000. S. B. Hand, city engr.

Wis., Ellsworth—Comrs. Pierce Co. had plans prepared building Stewart bridge, 20 ft. rein.-con. span, 18 ft. roadway, River Falls Twp.; Teubert bridge, 30 ft. rein.-con. span, 18 ft. roadway; Davidson bridge, 26 ft. I beam span, 16 ft. roadway; Baird bridge, 18 ft. rein.-con. span, 24 ft. roadway; Armbruster bridge, 14 ft. rein.-con. span, 24 ft. roadway. C. F. Kenall, co. highway comr.

Wis., La Crosse—See "Streets and Roads."

Wis., Manitowoc—City plans to build double leaf bascule bridge, 400 ft. opening. About $60,000. L. K. Pitz, city engr.

Wis., Manitowoc—City plans to move bridge and build new pile foundation for same. About $10,000. L. K. Pitz, city engr.

Wis., Menasha—City plans to build 390 ft. rein.-con. bridge, 57 ft. wide. A. E. McMahon, city engr.

Minn., Minneapolis—State Legislature authorized $200,000 bond issue, in addition to $162,000 now available, to rebuild Franklin Ave. bridge; also $100,000 for bridge over Nokomis Lake on Cedar Ave. W. F. Chappelin, city engr.

Kan., Lyndon—Osage Co. receives bids about Mar. 1, building 90 ft. rainbow arch bridge, 18 ft. roadway. About $14,000. C. C. James, co. engr.

Kan., Oswego—La Bette Co. plans to build rein.-con. highway bridge between here and Chetopa Twp., involving 540 cu.yd. rein.-con., 3.45 tons steel, 384 ft. 3 in. clay pipe, 1228 ft. 15-30 in. concrete pipe and 1800 cu.yd. earth approach and fill. About $15,000. W. J. King, co. engr.

Tex., Victoria—Comrs. Victoria Co. plan to build bridge over Arenosa Creek. About $10,000.